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Substitute for form 1449/PTO		<b>Complete if Known</b>		
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary) Sheet 1 of 2		Application Number	09/763,824	
		Filing Date	February 27, 2001	
		First named Inventor	David J. Squirrel	
		Group Art Unit	1656	
		Examiner name	David J. Steadman	
		Attorney Docket Number	016026-9315-US00	
<b>U.S. Patent Documents</b>				
Examiner Initials		U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document
		5,049,358	Lau	9/17/1991
		5,219,737	Kajiya et al.	6/15/1993
		5,229,285	Kajiya et al.	7/20/1993
		5,605,793	Stemmer	2/25/1997
		5,670,356	Sherf et al.	9/23/1997
		5,674,713	McElroy et al.	10/7/1997
		5,700,673	McElroy et al.	12/23/1997
		5,716,851	Pugia et al.	2/10/1998
		6,171,808	Squirrel et al.	1/9/2001
		6,265,177	Squirrel et al.	7/24/2001
		6,387,675	Wood et al.	5/14/2002
		7,241,584	Wood et al.	7/10/2007
		2005/0048592	Wood et al.	3/3/2005
		2006/0183212	Wood et al.	8/17/2006
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		2009/0311769	Wood et al.	12/17/2009

**FOREIGN PATENT DOCUMENTS**

Examiner Initials	Country Code	Foreign Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Translation	English Abstract
	EP	0337349	Kikkoman Corporation	10/18/1989		
	EP	0449621	Kikkoman Corporation	10/2/1991		

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		Examiner name		David J. Steadman			
		Attorney Docket Number		016026-931.5-US00			
U.S. Patent Documents							
<b>FOREIGN PATENT DOCUMENTS</b>							
Examiner Initials	Country Code	Foreign Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Translation	English Abstract	
	EP	0680515	The Secretary of State for Defence	8/26/1998			
	JP	<del>5-244942</del> <del>8-510837</del>	Kikkoman Corporation	9/24/1993			
	JP	<del>8-51037</del>	<del>Cornell Res. Found.</del> <del>Promega Corporation</del>	<del>11/12/96</del> <del>11/5/1996</del>			
	JP	9-294600	Kikkoman Corporation	11/18/1997			
	JP	9510610	The Secretary of State for Defence	10/28/1997			
	WO	98/013487	Maxygen Inc.	4/2/1998			
	WO	00/24878	The Secretary of State for Defence	5/4/2000			
	WO	01/31028	The Secretary of State for Defence	5/3/2001			

Examiner Signature	/David J. Steadman/	Date Considered	11/04/2010
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			<b>Examiner Name</b>	David J. Steadman	
<b>Sheet</b>	1	of	12	<b>Attorney Docket Number</b>	016026-9315-US00

**OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

Examiner Initials	
	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	ARNOLD, F.H., "Directed evolution: creating biocatalysts for the future," Chem. Eng. Sci. (1996) 51:5091-5102
	BOWIE et al., "Deciphering the message in protein sequences tolerance to amino acid substitutions," Science (1990) 247:1306-1310
	CADWELL, R.C. et al., "Randomization of genes by PCR mutagenesis," PCR Methods and Applications (1992) 2:28-33
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	DEMENTIEVA, E.I., "Physicochemical properties of recombinant luciferase and its mutant forms," Biochem. (1996) 61(1):115-119
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	JANOWSKI, M., "Ras proteins and the Ras-related signal transduction pathway," Radiation & Env. Biophys. (1991) 30(3):185-189
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			<b>Examiner Name</b>	David J. Steadman	
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		KAJIYAMA, N. et al., "Isolation and characterization of mutants of firefly luciferase which produce different colors of light," Protein Eng. (1991) 4(6):691-693
		KLOCK, C., "Cloning vector pGEM-luc," Promega Corporation, Accession No. X65316 (4/7/1992) 5 pages
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		LIU, Y. et al., "Factors influencing the efficiency of cationic liposome-mediated intravenous gene delivery," Nature Biotech. (1997) 15:167-173
		MANUKHOV et al., "Cloning of the vibrio harveyi luxA and luxB genes and the expression fo bioluminescence in escherichia coli and bacillus subtilis," Russian Biotech. (1996) 1:1-6
		OHMIYA, Y. et al., "Cloning, expression and sequence analysis of cDNA for the luciferases from the Japanese fireflies, pyrocoelia miyako and hotaria parvula," Photochem. Photobiol. (1995) 62(2):309-313 - Genbank Accession No. Q26076, October 2006 (2 pages)
		PURDY et al., "Heterologous gene expression in campylobacter coli: the use of bacterial luciferase in a promoter probe vector," FEMS Microbiology Letters (1993) 111:233-237
		REECK, G.R. et al., "'Homology' in proteins and nucleic acids: a terminology muddle and a way out of it," Cell (1987) 50:667
		ROMMENS, J.M. et al., "cAMP-inducible chloride conductance in mouse fibroblast lines stably expressing the human cystic fibrosis transmembrane conductance regulator," Proc. Natl. Acad. Sci. USA (1991) 88:7500-7504

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				<b>First Named Inventor</b>	David J. Squirrell
				<b>Group Art Unit</b>	1656
				<b>Examiner Name</b>	David J. Steadman
<b>Sheet</b>	3	of	12	<b>Attorney Docket Number</b>	016026-9315-US00

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
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		SAIKI, R.K. et al., "Primer-directed enzymatic amplification of DNA with a thermostable DNA polymerase," Science (1988) 239:487-491
		SALA-NEWBY, G.B., "Sequence and biochemical similarities between the luciferases of the glow-worm lampyrus noctiluca and the firefly photinus pyralis," Biochem. J. (1996) 313:761-767
		SALA-NEWBY, G.B. et al., "Engineering a bioluminescent indicator for cyclic AMP-dependent protein kinase," Biochem. J. (1991) 279:727-732
		SALA-NEWBY, G.B. et al., "Engineering firefly luciferase as an indicator of cyclic AMP-dependent protein kinase in living cells," FEBS Lett. (1992) 307(2):241-244
		STEMMER, W.P.C., "DNA shuffling by random fragmentation and reassembly: in vitro recombination for molecular evolution," Proc. Natl. Acad. Sci. USA (1994) 91:10747-10751
		STRAUSE, L.G. et al., "Characteristics of luciferases from a variety of firefly species: evidence for the presence of luciferase isozymes," Insect Biochem. (1981) 11(4):417-422
		SZITTNER et al., "Nucleotide sequence, expression, and properties of luciferase coded by lux genes from a terrestrial bacterium," J. Biol. Chem. (1990) 265(27):16581-16587
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		WHITE, P.J. et al., "Generation and characterisation of a thermostable mutant of luciferase from photinus pyralis," Proceedings of the 8th International Symposium on Bioluminescence & Chemiluminescence, September 1994, Biolum. Chemlum. (1994) 419-422

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Sheet	4	of	12	Attorney Docket Number	016026-9315-US00

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		WOOD, K.V. et al., "Complementary DNA coding click beetle luciferases can elicit bioluminescence of different colors," Science (1989) 244:700-702
		WOOD, K.V., "The chemical mechanism and evolutionary development of beetle bioluminescence," Photochem. Photobiol. (1995) 62(4):662-673
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		WOOD, K.V. et al., "Photographic detection of luminescence in escherichia coli containing the gene for firefly luciferase," Anal. Biochem. (1987) 161:501-507
		WOOD, K.V. et al., "Bioluminescent click beetles revisited," J. Biolumin. Chemilumin. (1989) 4:31-39
		International Preliminary Examination Report for Application No. PCT/GB96/00099 dated April 10, 1997 (5 pages)
		Written Opinion for Application No. PCT/GB96/00099 dated October 24, 1996 (3 pages) excerpts (all that is in file)
		International Search Report for Application No. PCT/GB96/00099 dated May 9, 1996 (3 pages)

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		International Preliminary Examination Report for Application No. PCT/GB98/01026 dated June 29, 1999 (5 pages)
		International Search Report for Application No. PCT/GB98/01026 dated October 13, 1998 (4 pages)
		Written Opinion for Application No. PCT/GB98/01026 dated February 5, 1999 (6 pages)
		International Preliminary Examination Report for Application No. PCT/GB99/003538 dated August 14, 2000 (4 pages)
		International Search Report for Application No. PCT/GB99/003538 dated May 23, 2000 (5 pages)
		Invitation to Pay Additional Fees and Partial International Search Report for Application No. PCT/GB99/003538 dated March 20, 2000 (5 pages)
		International Preliminary Examination Report for Application No. PCT/GB00/004133 dated May 30, 2002 (11 pages)
		Written Opinion for Application No. PCT/GB00/004133 dated April 11, 2002 (10 pages)
		International Search Report for Application No. PCT/GB00/004133 dated August 1, 2001 (4 pages)

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		Written Opinion for Application No. PCT/GB1995/000629 dated December 15, 1995 (3 pages)
		International Search Report for Application No. PCT/GB1995/000629 dated August 1, 1995 (3 pages)
		International Preliminary Examination Report for Application No. PCT/US98/19494 dated January 11, 2000 (8 pages)
		International Search Report for Application No. PCT/US98/19494 dated April 16, 1999 (5 pages)
		Written Opinion for Application No. PCT/US98/19494 dated September 14, 1999 (9 pages)
		International Search Report for Application No. PCT/US95/00108 dated April 17, 1995 (3 pages)
		International Search Report for Application No. PCT/US99/30925 dated August 14, 2000 (10 pages)
		Invitation to Pay Additional Fees and Partial Search Report for Application No. PCT/US99/30925 dated June 2, 2000 (12 pages)

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		United States Patent Office Action for Application No. 08/875,277 dated December 17, 1999 (8 pages)
		United States Patent Office Action and Notice of Allowance for Application No. 08/875,277 dated July 3, 2000 (4 pages)
		United States Patent Office Action for Application No. 08/875,277 dated December 7, 1998 (9 pages)
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		United States Patent Office Action/Notice of Allowance for Application No. 09/380,061 dated March 5, 2001 (5 pages)
		United States Patent Office Action for Application No. 10/111,723 dated February 22, 2010 (15 pages)
		United States Patent Office Action for Application No. 10/111,723 dated October 9, 2009 (11 pages)
		United States Patent Office Action for Application No. 10/111,723 dated August 6, 2008 (25 pages)
		United States Patent Office Action for Application No. 10/111,723 dated March 12, 2008 (16 pages)

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		United States Patent Office Action for Application No. 10/111,723 dated May 24, 2004 (22 pages)
		United States Patent Office Action for Application No. 10/111,723 dated September 20, 2010 (6 pages)
		United States Patent Office Action for Application No. 08/718,425 dated June 7, 1999 (8 pages)
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Substitute for form 1449B/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				<b>Application Number</b>	09/763,824
				<b>Filing Date</b>	February 27, 2001
				<b>First Named Inventor</b>	David J. Squirrel
				<b>Group Art Unit</b>	1656
				<b>Examiner Name</b>	David J. Steadman
<b>Sheet</b>	9	of	12	<b>Attorney Docket Number</b>	016026-9315-US00

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc. ), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
		United States Patent Office Action for Application No. 08/718,425 dated April 15, 1997 (10 pages)
		United States Patent Office Advisory Action for Application No. 09/156946 dated May 2, 2001 (5 pages)
		United States Patent Office Action for Application No. 09/156946 dated October 24, 2000 (8 pages)
		United States Patent Office Action for Application No. 09/156946 dated April 26, 2000 (10 pages)
		United States Patent Office Action for Application No. 09/838469 dated September 10, 2002 (9 pages)
		United States Patent Office Action for Application No. 09/396154 dated January 2, 2002 (9 pages)
		United States Patent Office Action for Application No. 09/396154 dated July 3, 2001 (10 pages)
		United States Patent Office Action for Application No. 09/396154 dated July 16, 2002 (4 pages)
		United States Patent Office Action for Application No. 10/378168 dated October 12, 2006 (13 pages)

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<b>Sheet</b>	10	of	12	<b>Attorney Docket Number</b>	016026-9315-US00

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		United States Patent Office Action for Application No. 10/378168 dated February 9, 2006 (18 pages)
		United States Patent Office Action for Application No. 11/291644 dated January 26, 2009 (13 pages)
		United States Patent Office Action for Application No. 11/291644 dated July 8, 2008 (18 pages)
		United States Patent Office Action for Application No. 11/811898 dated September 17, 2009 (23 pages)
		Australian Patent Office Action for Application No. 63573/99 dated May 23, 2003 (2 pages)
		Australian Patent Office Action for Application No. 63573/99 dated May 13, 2002 (3 pages)
		Australian Patent Office Action for Application No. 2004200277 dated July 7, 2005 (1 page)
		Australian Patent Office Action for Application No. 2004202276 dated July 21, 2006 (2 pages)
		Australian Patent Office Action for Application No. 2004202277 dated December 20, 2007 (1 page)

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<b>Sheet</b>	11	of	12	<b>Attorney Docket Number</b>	016026-9315-US00

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		Australian Patent Office Action for Application No. 2004202277 dated July 21, 2006 (2 pages)
		Canadian Patent Office Action for Application No. 2342300 dated July 28, 2008 (2 pages)
		Canadian Patent Office Action for Application No. 2342300 dated November 22, 2007 (3 pages)
		European Patent Office Action for Application No. 99950990.4 dated October 11, 2007 (11 pages)
		European Patent Office Action for Application No. 99950990.4 dated September 16, 2005 (7 pages)
		European Patent Office Action for Application No. 99950990.4 dated April 6, 2004 (5 pages)
		European Patent Office Action for Application No. 99950990.4 dated July 2, 2003 (5 pages)
		European Patent Office Action for Application No. 99950990.4 dated May 7, 2003 (5 pages)
		European Patent Office Action for Application No. 04000812.0 dated October 11, 2007 (10 pages)

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		European Patent Office Action for Application No. 04000812.0 dated September 16, 2005 (5 pages)
		European Patent Search Report for Application No. 04000812.0 dated April 6, 2005 (6 pages)
		European Patent Search Report for Application No. 04000812.0 dated January 27, 2005 (5 pages)
		European Patent Search Report for Application No. 08013254.1 dated September 10, 2009 (19 pages)
		Great Britain Patent Office Action for Application No. 9925162.1 dated October 22, 2003 (4 pages)
		Great Britain Patent Office Action for Application No. 9925162.1 dated March 31, 2003 (3 pages)
		Japanese Patent Office Action for Application No. 2000-578432 dated August 31, 2009 (10 pages) with English translation
		Japanese Patent Office Action for Application No. 2000-578432 dated August 16, 2010 (26 pages) with English translation

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